

**AMENDMENTS TO THE CLAIMS:**

Please amend the claims as follows:

1. (currently amended) An electronic device for written input and subsequent display of said written input, the electronic device comprising:

a touch input screen, said touch input screen operable to accept written input;

a display element, said display element operable to display one or more of recognized text and digital ink that corresponds to the written input provided to the touch input screen, wherein the recognized text is determined from the written input using a recognition feature coupled to the touch input screen and wherein the digital ink, ~~which~~ may be edited by the user, ~~corresponds to the written input~~; and

a scrolling mechanism coupled to the touch input screen that enables at least a portion of the touch input screen to appear to move as written entries are input thereon so as to continuously present screen space on the touch input screen to the user for written input.

2. (original) The electronic device of claim 1 wherein the screen is of a predetermined size and the screen portion is smaller than the predetermined screen size so that only the screen portion appears to move during written input.

3. (original) The electronic device of claim 1 wherein the screen has an input area including the screen portion on which written input is entered and displayed, and an output area separate from the input area on which one or more of corresponding digital ink and recognized text is displayed.

4. (currently amended) A handwritten input user interface (HIUI) for a portable device having a touch-enabled input screen with a predetermined area thereof, said HIUI comprising:

a handwriting input area residing in a predetermined portion of a touch-enabled input screen, handwritten text being entered using a stylus;

an input/display scrolling window in said handwriting input area, written entries being scrolled such that writing space is continuously available within said handwriting input area; and

a display area operable to display handwritten input as digital ink corresponding to the handwritten input entered in the handwriting input area without the requirement of converting said handwritten input to text using a recognition element.

5. (original) A HIUI as in claim 4, wherein said handwritten input area includes a word separation line and spans said touch-enabled screen's width.

6. (original) A HIUI as in claim 4 including a recognition engine for recognizing individual words of the handwritten text, said recognized word operable to be displayed in the display area.

7. (original) A HIUI as in claim 4 wherein stylus entries made in said handwritten input area are text entries and stylus entries made outside of said handwritten input area are pointer function entries.

8. (original) A HIUI as in claim 4 further comprising one or more action icons on said touch-enabled screen displayed together on a side of said touch-enabled screen.

9. (original) A HIUI as in claim 4 wherein a word separator is displayed in said handwritten input area to the right of words being entered, entries to the right of said word separator indicating start of a next word.

10. (original) A HIUI as in claim 4, wherein the handwritten input area is operable to display a menu of possible functions to the user, said menu comprising one or more of:

sending digital ink of the display area electronically to a remote destination;

printing digital ink of the display area;

erasing the digital ink from the display area;

viewing the digital ink of the display area at a greater or lesser degree of resolution; and

applying a recognition engine to at least a portion of the digital ink of the display area.

11. (original) A HIUI as in claim 10, further comprising one or more of:

an undo button, said undo button operable to undo one or more actions performed within the display area;

a menu button, wherein a display of the menu may be toggled using the menu button of the portable device;

a keyboard button, said keyboard button operable to display a keyboard having alphanumeric or non-Western character data in the handwritten input area;

a spacebar button, said spacebar button usable to insert a space in the display area;

a backspace button, said backspace button usable to remove a portion of digital ink of the display area;

a new line button, said new line button usable to insert a new line at the user specified location of the display area.

12. (original) A HIUI as in claim 4, wherein the digital ink entered by the user is displayable using multiple colors.

13. (original) A HIUI as in claim 4, wherein the digital ink entered by the user is displayable using multiple font sizes.

14. (original) A HIUI as in claim 4, wherein the digital ink entered by the user is displayable using multiple ink line thicknesses.

15. (original) A HIUI as in claim 4, wherein the user can place a cursor for digital ink modification in the display area.

16. (original) A HIUI as in claim 4, wherein the user can control the rate of scrolling.

17. (original) A HIUI as in claim 4, wherein the user can control a duration of a pen timeout.

18. (currently amended) A personal digital assistant (PDA) capable of displaying words in a continuous handwritten text stream, said PDA comprising:

a touch-enabled input screen;

a communications port for communicating with a remotely connected computer, data being transferred between said remotely connected computer and said PDA;

a local storage storing applications to be run on said PDA, ~~said application data~~;

a plurality of switches providing manual input to said PDA;

a handwritten input user interface (HIUI) comprising:

a designated handwriting input area residing in a lower portion of said touch-enabled input screen, handwritten words entered using a stylus or other functionally similar input device;

an automatically scrollable output area, said handwriting input area being superimposed on said scrollable output area, said scrollable output area displaying digital ink strokes corresponding to stylus entries made in said designated handwriting input area, said scrollable output area scrolling continuously at a rate set by stroke rate;

a text output area operable to display the digital ink strokes corresponding to stylus entries made, wherein the digital ink strokes may be displayed in the text output area without using a recognition element; and

one or more action icons displayed together on a side of said touch-enabled screen and providing access to editing functions for editing previously displayed words.

19. (currently amended) A method of providing written input to an electronic device, said method comprising:

receiving an entry from a written-entry screen area;

displaying a corresponding digital ink stroke in said written-entry screen area;

shifting each displayed digital ink stroke horizontally at a rate corresponding to an ink stroke rate of the digital ink, whereby written entries appear to be scrolling off one side of a display as on a ticker tape; and

displaying the written entries in a display area, wherein displaying the written entries in the display area further comprises:

performing one or more of:

passing said received entry to a handwriting recognition engine, said handwriting recognition engine converting said received entry to text;

converting the written entries to digital ink; and

displaying one or more of text and digital ink in a textual display area.

20. (canceled)

21. (currently amended) A method as in claim [[20]]19 wherein the shifting displayed digital ink strokes includes displaying a word separator indicating a point on the written entry screen area designating demarcation between continuation of a current word and initiation of a next word.

22. (original) A method as in claim 21, wherein said word separator scrolls with a written entry when written input is determined to have paused.

23. (original) A HIUI as in claim 19, wherein the user can insert print characters within the digital ink of the display area further comprising activating a keyboard from a menu, said keyboard operable to be used to enter alpha-numeric characters intermingled with the digital ink.

24. (original) A HIUI as in claim 19, wherein the user can edit handwriting in the display area, further comprising one or more of:

deleting one or more portions of ink traces of the digital ink;

inserting one or more spaces between ink traces of the digital ink;

removing one or more spaces between ink traces of the digital ink; and

inserting one or more new lines within ink traces of the digital ink.

25. (original) A HIUI as in claim 24, wherein deleting one or more portions of the ink traces comprises:

placing a cursor for digital ink modification in the display area; and

deleting a portion of an ink trace using a delete key.

26. (original) A HIUI as in claim 24, wherein inserting one or more spaces between ink traces comprises:

placing a cursor for digital ink modification in the display area; and

inserting a space within an ink trace using a space key.

27. (original) A HIUI as in claim 24, wherein removing one or more spaces between ink traces comprises:

placing a cursor for digital ink modification in the display area between two ink traces; and

deleting a portion of a gap between the two ink traces using a delete key.

28. (original) A HIUI as in claim 19, wherein the user can draw without having the input area scroll, comprising:

user entering a pause mode by pressing a user interface button, said pause mode is operable to prevent input screen from scrolling;

user drawing within input screen; and

user exiting pause mode whereby what was drawn is placed in the display area.

29. (currently amended) A computer program product for inputting written entries into a computer, said computer program product comprising a computer usable medium having computer readable program code thereon, said computer readable program code comprising:

computer readable program code means for continuously receiving written entries;

computer readable program code means for converting said written entry into digital ink;

computer readable program code means for setting a scrolling speed responsive to an entry input rate;

computer readable program code means for displaying newly entered said digital ink and removing previously displayed written input from an input display at a rate set by said controlling speed, displayed said written input appearing as if on a ticker tape; and

computer readable program code means for displaying current and previous written input as digital ink in an output display element, wherein the digital ink is displayed in the output display element without converting said written input to text using a recognition element.

30. (original) A computer program product for inputting written entries into a computer as in claim 29 further comprising:

computer readable program code means for identifying individual words and calling handwriting recognition; and

computer readable program code means for recognizing written words and providing recognized said words to the output display element.

31. (original) A computer program product for inputting written entries into a computer as in claim 29 wherein the computer readable program code means for receiving written entries further comprises:

computer readable program code means for determining whether said written entries are being made in an input area of a touch sensitive screen or in an other area of said touch sensitive screen than said input area; and

computer readable program code means for providing commands responsive to entries in said other area, entries in said input area being received as written entries.

32. (currently amended) An electronic device for handwritten input and subsequent display of said handwritten input, the electronic device functionally comprising:

a user interface having an ink text canvas and a conveyor canvas;

one or more ink text areas coupled to the ink text canvas;

a conveyor area, coupled to the one or more ink text areas and coupled to the user interface, said conveyor area comprising one or more ink traces[[ s]];

an event loop of the user interface, said event loop operable to respond to one or more of:

pen down events;

pen up events;

pen move events; and

pen timeout events,

wherein upon an occurrence of a pen timeout event, one or more ink traces are sent to the ink processor for display without converting said one or more ink traces to text using a recognition element.

33. (currently amended) The electronic device of claim 32, wherein upon an occurrence of a pen down event:

if a trace is already present and the trace has substantially fallen off an edge of the conveyor area, then send the trace to the ink text canvas for display, delete the trace from the conveyor area, ensure scrolling, cancel any pending timeout events, and add an ink point to the conveyor area;

if a trace is already present and the trace is not falling off an edge of the conveyor area, then ensure scrolling, cancel any pending timeout events, and add an ink point to the conveyor area;

if a trace is not present, then ensure scrolling, cancel [[and]]any pending timeout events, and add an ink point to the conveyor area;

34. (original) The electronic device of claim 32, wherein upon an occurrence of a pen move event, an ink point is added to a current ink trace of one or more ink traces.

35. (original) The electronic device of claim 32, wherein upon an occurrence of a pen up event, an ink point is added to a current ink trace of one or more ink traces and a pen up timeout event is scheduled.

36. (original) The electronic device of claim 32, wherein upon an occurrence of a pen timeout event, any pending timeouts are canceled, one or more ink traces are sent to the ink processor for display, the one or more ink traces are deleted from the conveyor area, and scrolling of conveyor area is stopped.

37. (original) The electronic device of claim 36, wherein the ink processor displays the one or more ink traces in the ink text canvas.

38. (original) The electronic device of claim 36, wherein the display of the one or more ink traces further comprises scaling and segmenting the written input into lines so that it can be displayed vertically in the ink text canvas.